



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/845,751	04/30/2001	Bernhard J. Scholz	GE1-004US	3458
21718 7590 03/20/2007 LEE & HAYES PLLC SUITE 500 421 W RIVERSIDE SPOKANE, WA 99201			EXAMINER PAULA, CESAR B	
			ART UNIT 2178	PAPER NUMBER
SHORTENED STATUTORY PERIOD OF RESPONSE			NOTIFICATION DATE	
3 MONTHS			03/20/2007	
			DELIVERY MODE ELECTRONIC	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

Notice of this Office communication was sent electronically on the above-indicated "Notification Date" and has a shortened statutory period for reply of 3 MONTHS from 03/20/2007.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

lhpto@leehayes.com

Office Action Summary	Application No.	Applicant(s)	
	09/845,751	SCHOLZ ET AL.	
	Examiner	Art Unit	
	CESAR B. PAULA	2178	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 11 December 2006.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-6, 19-38 and 40-43 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-6, and 19-38, and 40-43 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

Art Unit: 2178

DETAILED ACTION

1. This action is responsive to the response to the amendment, and response to Examiner's Answer filed on 12/11/2006.

This action is made Final.

2. In the amendment, claim 39 has been canceled. Claims 1-6, and 19-38, and 40-43 are pending in the case. Claims 1, 19, 23, 32, and 38 are independent claims.

Drawings

3. The drawings filed on 4/30/2001 have been approved by the Examiner.

Specification

4. The objection to the specification, in that it failed to provide antecedent basis for the terms "One or more computer-readable media" as used in claims 1-6 and 43, and that the only mention "data structure" or what is meant by a "portion identifying" is a field as used in claims 38-42 is in Appellant's claims, has been withdrawn as necessitated by the amendment.

Claim Rejections - 35 USC § 101

35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

5. Claims 23-36 remain rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter.
6. The rejection of claims 1-6 and 43, has been withdrawn as necessitated by the amendment.
7. Claim 23 still recites a software system, which is not tangibly embodied in a manner so as to be executable. A software system is descriptive material per se and therefore not statutory subject matter. Regarding claims 23-29, such claims are directed to a system comprising two elements, a form analyzer and a tag replacement module, and claims 30-31 add a third element, a tag library. Turning again to Appellant's original disclosure, specification page 33, lines 14-19 describes an unclaimed form processor 808 which is comprised of a form analyzer module 810 and a tag replacement module 812. Page 39, lines 11-13 state, "the form processor 808 may be a separate component or module (e.g., software, firmware, and/or hardware) that analyzes the form definitions 806 to identify the custom tags." Lastly, page 66, lines 19-20 state, "[t]he discussions herein are directed primarily to software modules and components." The intrinsic evidence noted above is believed to provide reasonable basis for one of ordinary skill to interpret the systems of claims 23-29 as covering software alone. In fact, even if the currently unclaimed processor were added to the system, based on the above citations from Appellant's specification, such would not resolve the deficiency. For the reasons above, software alone is not believed to fall within a statutory category as set forth in 35 USC 101. With regard to claims 30-31, tag library 816 is described as equivalent to a database and its function is described primarily on

Art Unit: 2178

page 34, lines 7-25 and page 52, line-6. It is unclear from Appellant's original disclosure whether the library as used in the claims is the collection of data and information or necessarily includes the underlying storage hardware. This uncertainty is further complicated by attributing the ability for functions to be "automatically built by" or "built by" the library as described in the portion of Table 4 contained on page 41. As such, it would appear reasonable for one of ordinary skill in the art to interpret the term "library" as used in claims 30-31 as software only rather than necessarily including both the software and underlying hardware storage. For the reasons above, a claim directed to software only is not believed to fall within a statutory category as set forth in 35 USC 101, see MPEP 2105.

8. The rejection of claims 32-36, and 38 has been withdrawn as necessitated by the amendment.

Claim Rejections - 35 USC § 112

9. The rejection of claims 38-42 under 35 U.S.C. 112, second paragraph, has been withdrawn as necessitated by the amendment.

Claim Rejections - 35 USC § 102

10. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

Art Unit: 2178

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

11. Claims 1, 19, and 43 remain rejected under 35 U.S.C. 102(e) as being anticipated by Raz (Pat.# 6,292,827, 9/18/2001, filed on 6/20/1997).

Regarding independent claim 1, Raz teaches the automatic conversion of paper forms into HTML-coded forms having form fields—*custom field on a source code form definition*. During the automatic conversion, validation functions are added, by a forms generator—*automatically--* to the converted HTML-coded form fields for verifying the data input into those fields—*identifying a custom field on a HTML source code form definition and one or more restrictions and validation code, that when executed, validates that the input conforms to the one or more restrictions* (col.12, lines 36-49). In other words, a new HTML file is formed, which comprises not only the coded fields, but also the validation functions associated with corresponding fields-- *adding to a new form definition that includes a non-custom field corresponding to the custom field, the identified validation code*.

Regarding independent claim 19, Raz teaches the automatic conversion of paper forms into HTML forms. During the automatic conversion, validation functions are added to the converted HTML-coded form fields for verifying the data input into those fields—*identifying, from an input source code definition written in a source code, one or more desired fields and automatically adding validation code to source code of the form* (col.12, lines 36-49).

Regarding claim 43, which depends on claim 1, Raz teaches the adding of validation functions to HTML-coded form fields. For example, a digit-checking validation function is added to an account number field found in the HTML form—*using, in identifying the validation code, the one or more restrictions* (col.12, lines 36-49). In other words, the form field is evaluated to determine the type of data it will receive, in this case account digits, then a digit-checking validation form is retrieved and added to the HTML form.

Claim Rejections - 35 USC § 103

12. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

13. Claims 2-6, 20-24, and 26-38, and 40-42 remain rejected under 35 U.S.C. 103(a) as being unpatentable over Raz, in view of Laura Lemay's Workshop JavaScript, Lemay et al, hereinafter Lemay, 1996, Sams.net, pp.132-137.

Regarding claim 2, which depends on claim 1, Raz teaches the automatic conversion of paper forms into HTML forms. After converting the forms, validation functions—*validation code that causes the other processor to execute the identified validation code* --are added to the HTML form fields for verifying the data input into those fields (col.12, lines 36-49). Raz fails to explicitly disclose: *adding to the new form definition, a reference to the identified validation*

code. However, Lemay teaches adding validation functions to HTML forms using a function call, such as “function Validate ()” page 134, line 3-- *reference to the added validation code*. The validation functions are added within HTML tags (page 133, lines 17-page 18). It would have been obvious to a person of ordinary skill in the art at the time of the invention to add the validation reference to the converted form of Raz with well-known HTML function calls taught by Lemay, because Lemay teaches the saving of trouble, and receiving immediate feedback without having to wait on a server (page 132, lines 7-10). Thus, allowing a user to save time and trouble by inserting the Javascript validation functions in the created HTML tags.

Regarding claim 3, which depends on claim 1, Raz teaches the automatic conversion of paper forms into HTML forms. After converting the forms, validation functions—*pre-defined validation code* are added, by a forms generator—*automatically--* , to the HTML form fields for verifying the data input into those fields (col.12, lines 36-49).

Regarding claim 4, which depends on claim 1, Raz teaches the automatic conversion of paper forms into HTML forms. After converting the forms, validation functions are added to the HTML form fields for verifying the data input into those fields (col.12, lines 36-49). Raz fails to explicitly disclose: *the source code form definition that defines a field includes a tag corresponding to the field*. However, Lemay teaches adding validation functions to HTML forms. The validation functions are added within HTML tags (page 133, lines 17-page 18). It would have been obvious to a person of ordinary skill in the art at the time of the invention to add the validation reference to the converted form of Raz with well-known HTML function calls

Art Unit: 2178

taught by Lemay, because Lemay teaches the saving of trouble, and receiving immediate feedback without having to wait on a server (page 132, lines 7-10). Thus, allowing a user to save time and trouble by inserting the Javascript validation functions in the created HTML tags.

Regarding claim 5, which depends on claim 1, Raz teaches the automatic conversion of paper forms into HTML forms, having fields, such as an account field, for typing—*user input*--an account number (col.12, lines 36-49).

Regarding claim 6, which depends on claim 1, Raz teaches the automatic conversion of paper forms into HTML forms. During the automatic conversion, validation functions are added, by a forms generator—*automatically*-- to the converted form fields for verifying the data input into those fields—*identifying, from a plurality of pieces of validation code, the validation code corresponding to the one or more attributes of the custom tag* (col.12, lines 36-49). Raz fails to explicitly disclose: *identifying on the source code definition, a custom tag corresponding to the field, wherein the custom tag includes an indication of one or more attributes and wherein each of the one or more attributes includes a value indicating what input corresponding to the non-custom field is to be restricted to*. However, Lemay teaches adding validation functions to HTML forms. The validation functions are added within HTML tags, and the functions indicate an attribute, such as “ValidLength”, and length value not to be exceeded (page 133, lines 17- page 18). It would have been obvious to a person of ordinary skill in the art at the time of the invention to include the validation functions of Raz within tags of Lemay, because Lemay teaches the saving of trouble, and receiving immediate feedback without having to wait on a

Art Unit: 2178

server (page 132, lines 7-10). Thus, allowing a user to save time and trouble by inserting the Javascript validation functions in the created HTML tags—*custom tags*.

Regarding claim 20, which depends on claim 19, Raz teaches the automatic conversion of paper forms into HTML forms. During the automatic conversion, validation functions are added, by a forms generator—*automatically*-- to the converted form fields for verifying the data input into those fields (col.12, lines 36-49). Raz fails to explicitly disclose: *a custom tag corresponding to each of the one or more desired fields, wherein each custom tag has one or more validation attributes and wherein each validation attribute includes an indication of the attribute and a corresponding value that input corresponding to the custom tag is to be restricted to*. However, Lemay teaches adding validation functions to HTML forms. The validation functions are added within HTML tags, and the functions indicate an attribute, such as “ValidLength”, and length value not to be exceeded (page 133, lines 17-page 18). It would have been obvious to a person of ordinary skill in the art at the time of the invention to include the validation functions of Raz within tags of Lemay, because Lemay teaches the saving of trouble, and receiving immediate feedback without having to wait on a server (page 132, lines 7-10). Thus, allowing a user to save time and trouble by inserting the Javascript validation functions in the created HTML tags—*custom tags*.

Regarding claim 21, which depends on claim 19, Raz teaches the automatic conversion of paper forms into HTML forms. During the automatic conversion, validation functions are added

Art Unit: 2178

to the converted form fields for verifying the data input by a user into those fields (col.12, lines 36-49).

Regarding claim 22, which depends on claim 19, Raz teaches the automatic conversion of paper forms into HTML forms—*generating a temporary form definition*. During the automatic conversion, validation functions are added to the converted form fields for verifying the data input into those fields—*adding and executing code to add the identified validation code to the new form definition and outputting, as the source code, the temporary form definition* (col.12, lines 36-49).

Regarding independent claim 23, Raz teaches the automatic conversion of paper forms into HTML forms. After converting the forms, validation functions are added, by a forms generator—*automatically*-- to the HTML form fields for verifying the data input into those fields — *further to add to a form definition, for each of the one or more custom tags, validation code to validate subsequent inputs to a field* (col.12, lines 36-49). Raz fails to explicitly disclose: *one or more custom tags in a source code form definition; and replace each of the one or more custom tags with another tag, and field corresponding to the tag*. However, Lemay teaches adding validation functions to HTML forms. The validation functions are added within HTML tags in a form file, and the functions indicate an attribute, such as “ValidLength”, and length value not to be exceeded (page 133, lines 17-page 18). It would have been obvious to a person of ordinary skill in the art at the time of the invention to include the validation functions into the HTML form of Raz within tags as suggested by Lemay, because Lemay teaches the saving of

Art Unit: 2178

trouble, and receiving immediate feedback without having to wait on a server (page 132, lines 7-10). Thus, allowing a user to save time and trouble by inserting the Javascript validation functions in the created HTML tags—*custom tags*.

Regarding claim 24, which depends on claim 23, Raz teaches the automatic conversion of paper forms into HTML forms. During the automatic conversion, validation functions are added to the converted form fields for verifying the data input by a user into those fields (col.12, lines 36-49).

Regarding claim 26, which depends on claim 23, Raz teaches the automatic conversion of paper forms into HTML forms. After converting the forms, validation functions are added to the HTML form fields for verifying the data input into those fields (col.12, lines 36-49). Raz fails to explicitly disclose: *a custom tag is a HTML tag*. However, Lemay teaches adding validation functions to HTML forms. The validation functions are added within HTML tags (page 133, lines 17-page 18). It would have been obvious to a person of ordinary skill in the art at the time of the invention to replace the tags of the converted form of Raz with well-known HTML tags suggested by Lemay, because Lemay teaches the saving of trouble, and receiving immediate feedback without having to wait on a server (page 132, lines 7-10). Thus, allowing a user to save time and trouble by inserting the Javascript validation functions in the created HTML tags—*custom tags*.

Regarding claim 27, which depends on claim 23, Raz teaches the automatic conversion of paper forms into HTML forms. After converting the forms, validation functions are added to the

HTML form fields for verifying the data input into those fields (col.12, lines 36-49). Raz fails to explicitly disclose: *add a reference to the added validation code*. However, Lemay teaches adding validation functions to HTML forms using a function call, such as “function Validate ()” page 134, line 3-- *reference to the added validation code*. The validation functions are added within HTML tags (page 133, lines 17-page 18). It would have been obvious to a person of ordinary skill in the art at the time of the invention to add the validation reference to the converted form of Raz with well-known HTML function calls taught by Lemay, because Lemay teaches the saving of trouble, and receiving immediate feedback without having to wait on a server (page 132, lines 7-10). Thus, allowing a user to save time and trouble by inserting the Javascript validation functions in the created HTML tags.

Regarding claim 28, which depends on claim 23, Raz teaches the automatic conversion of paper forms into HTML forms—*form definition*. After converting the forms, validation functions are added to the HTML form fields-- *generate a new document corresponding to the form definition*-- for verifying the data input into those fields-- *add validation code to the new document* (col.12, lines 36-49). Raz fails to explicitly disclose: *to replace each of the one or more custom tags with another tag by adding the other tag to the new document*. However, Lemay teaches adding validation functions to HTML forms. The validation functions are added within HTML tags (page 133, lines 17-page 18). It would have been obvious to a person of ordinary skill in the art at the time of the invention to add the validation code to the newly converted form of Raz within well-known HTML tags taught by Lemay, because Lemay teaches the saving of trouble, and receiving immediate feedback without having to wait on a server (page

Art Unit: 2178

132, lines 7-10). Thus, allowing a user to save time and trouble by inserting the Javascript validation functions in the created HTML tags.

Regarding claim 29, which depends on claim 23, Raz teaches the automatic conversion of paper forms into HTML forms. After converting the forms, validation functions are added to the HTML form fields for verifying the data input into those fields—*restrictions corresponding to the same validation code, add the same validation code only once* (col.12, lines 36-49). Raz fails to explicitly disclose: *one or more custom tags*. However, Lemay teaches adding validation functions to HTML forms. The validation functions are added within HTML tags (page 133, lines 17-page 18). It would have been obvious to a person of ordinary skill in the art at the time of the invention to add the validation code to the newly converted form of Raz within well-known HTML tags taught by Lemay, because Lemay teaches the saving of trouble, and receiving immediate feedback without having to wait on a server (page 132, lines 7-10). Thus, allowing a user to save time and trouble by inserting the Javascript validation functions in the created HTML tags.

Regarding claim 30, which depends on claim 23, Raz teaches the automatic conversion of paper forms into HTML forms. After converting the forms, validation functions are added to the HTML form fields for verifying the data input into those fields. The data, including validation functions, are stored in a RDBMS database—*tag library* (col. 9, lines 27-45, col.12, lines 36-49).

Art Unit: 2178

Regarding claim 31, which depends on claim 30, Raz teaches the automatic conversion of paper forms into HTML forms. After converting the forms, validation functions are added to the HTML form fields for verifying the data input into those fields. The data, including validation functions, are stored in a RDBMS database—*tag library* (col. 9, lines 27-45, col.12, lines 36-49). Raz fails to explicitly disclose: *an identification of the one or more custom tags*. However, Lemay teaches adding validation functions to HTML forms. The validation functions are added within HTML tags--*identification* (page 133, lines 17-page 18). It would have been obvious to a person of ordinary skill in the art at the time of the invention to combine Raz, and Lemay to store the well-known HTML tags taught by Lemay, because Lemay teaches the saving of trouble, and receiving immediate feedback without having to wait on a server (page 132, lines 7-10). Thus, allowing a user to save time and trouble by inserting the Javascript validation functions in the created HTML tags.

Regarding independent claim 32, Raz teaches the automatic conversion of paper forms into HTML forms—*form definition*(col.12, lines 36-49).

Moreover, Raz teaches that after converting the forms, validation functions are added, by a forms generator—*automatically*-- to the HTML form fields for verifying the data input into those fields — *identifying and adding validation code that, when executed based on an input corresponding to the field, validates whether the associated restrictions are satisfied* (col.12, lines 36-49). In other words, the converted HTML-coded form(s) is received, and then validation functions associated—*one or more associated input restrictions*-- with the HTML form fields, are added to the form. Raz fails to explicitly disclose: *automatically identifying a*

Art Unit: 2178

replacement non-custom tag, automatically adding the identified replacement non-custom tag to a new form definition. However, Lemay teaches adding validation functions to HTML forms along with tags— *identifying and adding a replacement non-custom tag.* The validation functions are added within HTML tags, and the functions indicate an attribute, such as “ValidLength”, and length value not to be exceeded (page 133, lines 17-page 18). It would have been obvious to a person of ordinary skill in the art at the time of the invention to have added the validation tags of Lemay and functions to the form fields of Raz, because Lemay teaches the saving of trouble, and receiving immediate feedback without having to wait on a server (page 132, lines 7-10). Thus, allowing a user to save time and trouble by inserting the Javascript validation functions in the created HTML tags—*custom tags.*

Regarding claim 33, which depends on claim 32, Raz teaches the automatic conversion of paper forms into HTML forms. After converting the forms, validation functions are added to the HTML form fields for verifying the data input into those fields (col.12, lines 36-49). Raz fails to explicitly disclose: *adding to the new form definition, a reference to invoke the added validation code.* However, Lemay teaches adding validation functions to HTML forms using a function call, such as “function Validate ()” page 134, line 3-- *reference to the added validation code.* The validation functions are added within HTML tags (page 133, lines 17-page 18). It would have been obvious to a person of ordinary skill in the art at the time of the invention to add the validation reference to the converted form of Raz with well-known HTML function calls taught by Lemay, because Lemay teaches the saving of trouble, and receiving immediate feedback

Art Unit: 2178

without having to wait on a server (page 132, lines 7-10). Thus, allowing a user to save time and trouble by inserting the Javascript validation functions in the created HTML tags.

Regarding claim 34, which depends on claim 32, Raz teaches that after converting the forms—*receiving HTML form definition*, validation functions are added to the HTML form fields for verifying the data input into those fields (col.12, lines 36-49). Raz fails to explicitly disclose: *adding the each of the non-custom tags to the new form definition*. However, Lemay teaches adding validation functions to HTML forms along with tags— *identifying and adding a replacement non-custom tag*. The validation functions are added within HTML tags, and the functions indicate an attribute, such as “ValidLength”, and length value not to be exceeded (page 133, lines 17-page 18). It would have been obvious to a person of ordinary skill in the art at the time of the invention to have added the validation tags of Lemay and functions to the form fields of Raz, because Lemay teaches the saving of trouble, and receiving immediate feedback without having to wait on a server (page 132, lines 7-10). Thus, allowing a user to save time and trouble by inserting the Javascript validation functions in the created HTML tags—*custom tags*.

Regarding claim 35, which depends on claim 32, Raz teaches the automatic conversion of paper forms into HTML forms. During the automatic conversion, validation functions are added to the converted form fields for verifying the data input by a user into those fields (col.12, lines 36-49).

Regarding claim 36, which depends on claim 32, Raz teaches the automatic conversion of paper forms into HTML forms. During the automatic conversion, validation functions are added to the converted form fields for verifying the data input into those fields (col.12, lines 36-49). Raz fails to explicitly disclose: *each input custom tag includes one or more attributes that identify the one or more associated restrictions, and wherein each of the one or more attributes includes an indication of the attribute and a corresponding value for that data input corresponding to the tag is to be restricted to.* However, Lemay teaches adding validation functions to HTML forms. The validation functions are added within HTML tags, and the functions indicate an attribute, such as “ValidLength”, and length value not to be exceeded (page 133, lines 17-page 18). It would have been obvious to a person of ordinary skill in the art at the time of the invention to include the validation functions of Raz within attributes of Lemay, because Lemay teaches the saving of trouble, and receiving immediate feedback without having to wait on a server (page 132, lines 7-10). Thus, allowing a user to save time and trouble by inserting the Javascript validation functions in the created HTML tags.

Regarding claim 37, which depends on claim 32, Raz teaches the automatic conversion of paper forms into HTML forms. During the automatic conversion, validation functions are added to the converted form fields for verifying the data input into those fields—*execution code to add the identified validation code to the new form definition* (col.12, lines 36-49).

Regarding independent claim 38, Raz teaches the automatic conversion of paper forms into HTML forms, having fields for entering data. After converting the forms, validation

Art Unit: 2178

functions are added, by a forms generator—*automatically*-- to the HTML form fields—a *first portion identifying an input field*-- for verifying the data input into those fields — *a second portion identifying validation code to be added to a page to enforce the one or more restrictions* (col.12, lines 36-49).

Regarding claim 40, which depends on claim 38, Raz teaches the automatic conversion of paper forms into HTML forms, having fields, such as an account field, for typing an account number (col.12, lines 36-49).

Regarding claim 41, which depends on claim 38, Raz teaches the automatic conversion of paper forms into HTML forms. During the automatic conversion, validation functions are added to the converted form fields for verifying the data input into those fields (col.12, lines 36-49). Raz fails to explicitly disclose: *one or more attributes and for each attribute and associated value for the attribute*. However, Lemay teaches adding validation functions to HTML forms. The validation functions are added within HTML tags, and the functions indicate an attribute, such as “ValidLength”, and length value not to be exceeded (page 133, lines 17-page 18). It would have been obvious to a person of ordinary skill in the art at the time of the invention to include the validation functions of Raz within attributes of Lemay, because Lemay teaches the saving of trouble, and receiving immediate feedback without having to wait on a server (page 132, lines 7-10). Thus, allowing a user to save time and trouble by inserting the Javascript validation functions in the created HTML tags.

Regarding claim 42, which depends on claim 38, Raz teaches the automatic conversion of paper forms into HTML forms, having fields, such as an account field, for typing—*user input*--an account number (col.12, lines 36-49).

14. Claim 25 remains rejected under 35 U.S.C. 103(a) as being unpatentable over Raz in view of Lemay, and further in view of Kryka et al, hereinafter Kryka (US Pat.# 6,832,369 B1, 12/14/2004, filed on 8/1/2000).

Regarding claim 25, which depends on claim 23, Raz teaches the automatic conversion of paper forms into HTML forms. After converting the forms, validation functions are added to the HTML form fields for verifying the data input into those fields (col.12, lines 36-49). Raz fails to explicitly disclose: *the system comprises a compiler*. However, Kryka teaches a Java compiler for compiling source code into Java bytecode form (col.1, lines 54-68). It would have been obvious to a person of ordinary skill in the art at the time of the invention to have included a compiler, because Kryka teaches above the popular use of a platform-independent programming language--Java. Thus, allowing a user to easily implement the form across multiple computer platforms.

Response to Arguments

15. Applicant's arguments filed 12/11/2006 have been fully considered but they are not persuasive. The Applicants indicate that Raz does not teach or suggest automatically identifying, and adding a custom field on a source code form definition and one or more restrictions on an input to the custom field (page 13). The Examiner disagrees, because Raz teaches the automatic

Art Unit: 2178

conversion of paper forms into HTML-coded forms having form fields—*custom field on a source code form definition*. During the automatic conversion, validation functions are added by a forms generator—automatically-- to the converted HTML-coded form fields for verifying the data input into those fields—*identifying a custom field on a HTML source code form definition and one or more restrictions and validation code, that when executed, validates that the input conforms to the one or more restrictions* (col.12, lines 36-49). In other words, a new HTML file is formed, which comprises not only the coded fields, but also the validation functions associated with corresponding fields--*adding to a new form definition that includes a non-custom field corresponding to the custom field, the identified validation code*.

Claims 2-6, 19-38, and 40-43 remain rejected at least based on the statements above.

Conclusion

16. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period

will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

I. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Cesar B. Paula whose telephone number is (571) 272-4128. The examiner can normally be reached on Monday through Friday from 8:00 a.m. to 4:00 p.m. (EST).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephen Hong, can be reached on (571) 272-4124. However, in such a case, please allow at least one business day.

Information regarding the status of an application may be obtained from the Patent Application Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, go to <http://portal.uspto.gov/external/portal/pair>. Should you have any questions about access to the Private PAIR system, please contact the Electronic Business Center (EBC) at 866 217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, please call 800-786-9199 or 571 272-1000 (USA or Canada).

Any response to this Action should be mailed to:
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450
Or faxed to:

Art Unit: 2178

- (571)-273-8300 (for **all** Formal communications intended for entry)

A handwritten signature in black ink, appearing to read "Cesar Paula", written in a cursive style.

CESAR PAULA
PRIMARY EXAMINER

3/1/07